

AMENDED CLAIM SET

The claims have been amended as set forth in the following listing of the claims:

1. (currently amended) A valve system for an internal combustion engine, comprising:

an intake-side rocker shaft;

an exhaust-side rocker shaft;

intake-side rocker arms having ends thereof connected to intake valves and supported on said intake-side rocker shaft such that said intake-side rocker arms rock, the intake-side rocker arms being driven by an intake cam;

exhaust-side rocker arms having ends thereof connected to exhaust valves and supported on said exhaust-side rocker shaft such that said exhaust-side rocker arms rock, the exhaust-side rocker arms being driven by an exhaust cam; and

a switching mechanism switching operating characteristics of the intake valves intake cam,

wherein the intake-side rocker shaft is provided with the switching mechanism and has a larger diameter than the exhaust-side rocker shaft.

2. (previously presented) A valve system for an internal combustion engine according to claim 1, wherein said intake-side rocker arms include,

a first rocker arm having an end thereof connected to the intake valve and supported on said intake-side rocker shaft such that said first rocker arm rocks, the first rocker arm being driven by a first low-lift cam,

a second rocker arm having an end thereof connectable to said first rocker arm and supported on said intake-side rocker shaft such that said second rocker arm rocks, the second rocker arm being driven by a high-lift cam causing a larger valve lift than the first low-lift cam, and

a connection switching mechanism that selectively connects or disconnects said second rocker arm to or from said first rocker arm.

3. (previously presented) A valve system for an internal combustion engine according to claim 1, wherein,

said intake valves include a first intake valve and a second intake valve, and

said intake-side rocker arms include,

a first rocker arm having an end thereof connected to said first intake valve and supported on said intake-side rocker shaft such that said first rocker arm rocks, the first rocker arm being driven by a first low-lift cam,

a third rocker arm having an end thereof connected to said second intake valve and supported on said intake-side rocker shaft such that said third rocker arm rocks, the third

rocker arm being driven by a second low-lift cam that causes a smaller valve lift than the first low-lift cam,

a second rocker arm having an end thereof connectable to said first rocker arm and supported on said intake-side rocker shaft such that said second rocker arm rocks, the second rocker arm being driven by a high-lift cam that causes a larger valve lift than the first low-lift cam, and

a connection switching mechanism that selectively connects or disconnects said second rocker arm to or from said first rocker arm and said third rocker arm.

4. (previously presented) A valve system for an internal combustion engine according to any of claims 1 to 3, wherein said intake-side rocker arms include center-pivot type rocker arms with middle parts thereof pivoted by said intake side rocker shaft.

5. (original) A valve system for an internal combustion engine according to claim 4, wherein said intake-side rocker arms and said exhaust-side rocker arms are driven by a single cam shaft disposed between said intake-side rocker shaft and said exhaust-side rocker shaft.

6. (previously presented) A valve system for an internal combustion engine according to claim 3, wherein the first rocker arm has a first roller follower provided with a double-ring type sliding roller that makes contact with the first low-lift cam.

7. (previously presented) A valve system for an internal combustion engine according to claim 3, wherein the first rocker arm has a first roller follower provided with a

double-ring type sliding roller that makes contact with the first low-lift cam, and the third rocker arm has second roller follower provided with a needle bearing that makes contact with the second low-lift cam.

8. (currently amended) A valve system for an internal combustion engine, comprising:

an intake-side rocker shaft having a first oil channel extending in a longitudinal direction thereof;

an exhaust-side rocker shaft having a second oil channel extending in a longitudinal direction thereof;

intake-side rocker arms having ends thereof connected to intake valves and supported on said intake-side rocker shaft such that said intake-side rocker arms rock, the intake-side rocker arms being driven by an intake cam;

exhaust-side rocker arms having ends thereof connected to exhaust valves and supported on said exhaust-side rocker shaft such that said exhaust-side rocker arms rock, the exhaust-side rocker arms being driven by an exhaust cam; and

a switching mechanism switching operating characteristics of the intake valvesintake cam,

wherein the intake-side rocker shaft is provided with the switching mechanism and has a larger diameter than the exhaust-side rocker shaft.

9. (currently amended) A valve system for an internal combustion engine, comprising:

an intake-side rocker shaft;

an exhaust-side rocker shaft;

intake-side rocker arms having ends thereof connected to intake valves and supported on said intake-side rocker shaft, such that said intake-side rocker arms rock, the intake-side rocker arms being driven by an intake cam;

exhaust-side rocker arms having ends thereof connected to exhaust valves and supported on said exhaust-side rocker shaft, such that said exhaust-side rocker arms rock, the exhaust-side rocker arms being driven by an exhaust cam; and

a switching mechanism switching operating characteristics of the exhaust valves~~exhaust~~ cam,

wherein the exhaust-side rocker shaft is provided with the switching mechanism and has a larger diameter than the intake-side rocker shaft.